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Table 3.1 Summary of Reclamation Projects (Updated 8/28/07)

(1) Project	(2) Project	(3) <u>Location</u>	(4) Type of Remediation	(5) Project	(6) Funding	(7) <u>Improvements</u> (actual or
<u>Sponsor</u>	Site Name			<u>Timeframe</u>	(incl. in-kind	anticipated)
·			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		match)	
Sunnyside	Lead	Gladstone on	Removal of 27,000 yards of	Comulated	CCC- \$1(2,000	Delegation of making all
Gold	Carbonate	bank of S. Fork	, ,	Completed 1991	SGC: \$163,000	Reduce loading of metals and
	Millsite	of Cement Creek	tailings from streambank	1991		erosion transport of tailings
Corp.			De control in this to it is	C1-4-1	SGC:	NC 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sunnyside Gold	Mayflower Mill –	Mayflower Mill	Re-contour inactive tailings	Completed		Mined land reclamation – reduce
	1	complex near Boulder Creek	ponds and cap.	1991-1992	\$1,755,000	loading of metals and erosion
Corp.	Tailings Ponds #1, #2	and Animas	625,000 yards of tailings and overburden moved.			transport of tailings
	and #3	River	overburden moved.			·
Sunnyside	Lake Emma	Sunnyside Basin	Fill mine subsidence, remove	Completed	SGC: \$911,000	Mined land reclamation and reduce
Gold	Sunnyside	headwaters of	240,000 yards mine waste and	1991-1993	300: \$911,000	loading of metals
Corp.	Basin	Eureka Creek	re-contour disturbances.	1991-1993		loading of metals
Sunnyside	American	Gladstone on	Remove 90,000 yards of waste	Completed	SGC: \$766,500	Mined land reclamation and reduce
Gold	Tunnel waste	bank of S. Fork	dump and underlying historic	1995	300. \$700,300	loading of metals and erosion
Corp.	dump	of Cement Creek	tailings	1773		transport of tailings
Sunnyside	Eureka	On banks and In	Remove 112,000 yards of	Completed	SGC: \$843,000	Reduce loading of metals and
Gold	Townsite	floodplain of	tailings	1996	βας. ψοτο,οοο	erosion transport of tailings
Corp.		Animas River	, manage	1330		dission transport of tarmings
Sunnyside	Gladstone	Cement Creek at	Divert and treat Cement Creek	8/96-5/99,	SGC: \$901,000	Reduce loading to Animas River to
Gold		Gladstone	to mitigate any short term	11/99-		offset any short term impacts of
Corp.			impacts of reclamation projects	12/99	,	reclamation of other sites.
Sunnyside	Boulder	Flood plain of	Remove 5700 yards of tailings	Completed	SGC: \$32,500	Reduce loading of metals and
Gold	Creek	Boulder Cr. and		1997		erosion transport of tailings
Corp.	Tailings	the Animas River				
Sunnyside	Ransom adit	Eureka townsite	Bulkhead seal to stop deep	Completed	SGC: \$85,400	Restore hydrologic regime and
Gold		above old mill	mine drainage and reclaim	1997 .		reduce rate of ore oxidation by
Corp.		foundation	portal			placing mine workings under water
··						to reduce metal loading.
Sunnyside	Gold Prince	Headwaters of	Bulkhead seals to stop deep	Completed	SGC: \$151,000	Reduce exposure to water to reduce
Gold	mine waste	Placer Gulch	mine drainage. Consolidate	1996-1997		metal loading
Corp.	and tailings		mine waste and tailings (moved			
			6000 yards) and construct			
			upland diversions	L		

Sunnyside Gold Corp.	Longfellow- Koehler	Headwaters of Mineral Creek near top of Red Mountain Pass	Remove Koehler dump (32,100 yards), consolidate Junction Tunnel dump and Longfellow dump and cap. Capture adit drainages. Construct diversions. Feasibility study of wetland treatment of Koehler drainage.	Completed 1996-1997	SGC: \$580,000	Reduce metal loading and erosion transport of mine waste
Sunnyside Gold Corp.	Pride of the West tailings	Howardsville near confluence of Cunningham Creek with Animas River	Remove 84,000 yards of tailings	Completed 1997	SGC: \$490,500 TUSCO: \$14,000	Reduce metal loading and transport of tailings by erosion
Sunnyside Gold Corp.	Sunnyside Mine	Sunnyside Mine Lake Emma Area	Inject 652 tons of hydrated lime into the Sunnyside Mine pool to provide increased alkalinity and improve initial mine pool conditions	Completed 1996-1997	SGC: \$313,000	Improve initial conditions as water table is restored through bulkheading to stop mine drainage
Sunnyside Gold Corp.	Mayflower Upland Hydrological Control	Mayflower Mill and Tailings Pond #1 area near Silverton	Capture and divert three upland drainages that were going sub- surface up-gradient of the mill and TP #1 facilities	Completed 1998-1999	SGC: \$186,000	Minimize potential for contact of runoff with tailings and reduce potential for metal loading
Sunnyside Gold Corp.	TP #4 drainage modification	Drainage ditch between Hwy. 110 and TP #4 near Silverton and Animas R.	Install lined diversion ditch to capture surface runoff and prevent infiltration through tailings material	Completed 1999	SGC: \$72,000	Minimize potential for contact of runoff with tailings and reduce potential for metal loading
Sunnyside Gold Corp.	TP #4 upland groundwater diversion	Up-gradient from Tailings Pond #4 near Silverton	Capture groundwater and divert around tailings impoundment	Completed 1993-1995, 1999	SGC: \$409,000	Minimize potential for contact of groundwater with tailings and reduce potential for metal loading
Sunnyside Gold Corp.	Sunnyside Mine hydraulic seal project	Sunnyside Mine	Bulkhead placement in Sunny- side Mine to restore hydrologic regime to approximate pre- mining and eliminate drainage from adits (6 bulkheads)	Completed 1992-1996	SGC: \$2,346,000	Place mine workings under water to reduce oxidation, restore groundwater movement around mine workings and eliminate need for perpetual water treatment
Sunnyside Gold Corp.	Power Plant Flats	Power Plant Flats, Animas River floodplain	Removal of mill tailings from floodplain	Completed 2003	SGC: \$?	Excavate buried tailings and dispose into Mayflower Tailings Pond #4
Sunnyside Gold Corp.	Mogul Mine Bulkhead	Mogul Mine, Upper Cement Crk.	Stop discharge of AMD from Mogul Mine	Summer, 2003	SGC: \$?	Reduce metal loading to Upper Cement Crk

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Sunnyside Gold Corp.	Kohler Mine Bulkhead	Kohler Mine, Headwaters of Mineral Crk	Stop discharge of AMD from Kohler mine	Summer, 2003	SGC: \$?	Reduce metal loading to Mineral Crk. Headwaters
Sunnyside Gold Corp.	Reactive Wall	Animas floodplain below MF. Tailings #4	Treat contaminated groundwater before entering Animas River	Fall, 2003	SGC: \$?	Reduce metal loading to Animas River
Gold King Mines Corp	Gold King Mine	Gladstone, N. Fork of Cement Creek	Hydrologic controls for workings and mine waste	1998	Gold King: \$117,300	Reduce metal loading to North Fork of Cement Creek
Gold King Mines Corp	Gold King Mine discharge	Gold King discharge treatment	Pipe mine discharge to Gladstone to actively treat	2002	Gold King: \$?	Reduce metal loading to Upper Cement Crk.
Silver Wing Mining Co	Silver Wing	Animas river, about 1.5 mile above Eureka	Collect AMD, hydrological controls	1995	Silver Wing \$7,000	Remove AMD from dump, reduce metals loading
Office of Surface Mining	Galena Queen	Prospect Gulch	Waste consolidation & hydrological controls	1998	Office of Surface Mining: \$10,000	Reduce surface water leaching of toxic metals
Silver Wing Mining Co	Silver Wing	Animas River, about 1.5 miles above Eureka	Anoxic Drain, settling pond, bioreactor	1999-2000	NPS 319Funds: \$216,000. St. Severance tax: \$144,000	Reduce metal loading to the Animas River.
San Juan RC & D (ARSG)	Carbon Lakes Mine Dump	Headwaters of Mineral Creek East of Red Mountain Pass	Removal of 1,900 cubic yards of waste rock from stream channel	Phase 1 – completed 1999	NPS 319 Funds: \$72,000 ARSG match: \$62,800	Reduce loading of metals especially Cadmium, Copper, Iron, Lead, Manganese, and Zinc
San Juan RC & D (ARSG)	Carbon Lakes Mine Waste Phase II Part 1	Headwaters of Mineral Creek East of Red Mountain Pass	Complete removal of waste rock from stream channel	2001 season	NPS 319 Funds: \$38,000 ARSG Match: \$51.000	Reduce loading of metals to Animas River, restore stream channel, revegetate
San Juan RC & D (ARSG)	Carbon Lakes Phase II, Part 1	Headwaters of Mineral Creek East of Red Mountain Pass	Removal and disposal of 3000 tons of Congress Mine Dump wastes	2001 season	NPS 319 Funds: \$38,500 ARSG Match: \$42.500	Reduce loading of metals to Animas River by beginning the removal of mine wastes.
San Juan RC & D (ARSG)	Carbon Lakes Phase II, Part 2	SanAntonio &Kohler Tunnel infiltration control	Infiltration Control: Purchased Carbon Lakes Trans-basin diversion rights; abandoned ditch	2001 season	NPS 319 Funds: \$50,000 ARSG Match: \$33.333	Reduce water infiltration to the San Antonio and Koehler Mines; reduce AMD

San Juan RC & D (ARSG)	Red Mtn. Project	Carbon Lakes Ditch Restoration	Ditch, Wetland and Stream Restoration	2003	SWWCD: \$5,000; USFS: \$12,400	Return Mineral Crk headwaters to natural hydrology; erosion controls; restoration of transbasin diversion ditch; wetland restoration.
San Juan RC & D (ARSG)	Red Mtn. Project	Congress Mine, Mineral Crk. headwaters	Complete removal of Congress mine wastes	2003	NPS 319: \$174,000; July, 2003; St. Min. Severance Tax: \$?	Reduce metal loading to Animas River by removal of mine wastes and benefaction.
San Juan RC & D (ARSG)	Red Mtn. Project	San Antonio Mine Waste Control project	Hydrological controls, remove wastes from stream, consolidation, neutralization, revegetation	2004	Ca. \$80,000; 40% match from Silver Wing Co. disposal fees.	Reduce metal loading and acidity to Mineral Creek; stabilize site, restore streambed
San Juan RC & D (ARSG)	Handies Peak Project	Lucky Jack Mine wastes and drainage	Hydrological controls, remove wastes from fen, consolidation, neutralization, revegetation; adit and shaft closures	2004	Ca. \$75,000; match from Co. Mineral Severance	Reduce metal loading and acidity to Upper Animas River; uncover fen and restore
San Juan RC & D (ARSG)	Handies Peak Project	Upper Lucky Jack Mine wastes and drainage	Consolidation, neutralization, & revegetation of waste dump; clean streambed of wastes	2005	Ca. \$13,095; match from Co. Mineral Severance	Reduce metal loading and acidity to Upper Animas River from leaching mine wastes partially residing in stream
San Juan RC & D (ARSG)	Infiltration Control Project	Pride of the West Mine Open Stopes	Combined safety and infiltration closure of 2 large open stopes & 1 raise.	2005	Ca 500,000; Mineral Severance, NPS, DMG safety pro	Reduced surface water infiltration into mine to reduce metal loading at mine discharge.
San Juan RC & D (ARSG)	Priority Waste Site	Kansas City #1, 2, and 3 mines	Safety closure, mine waste consolidation and burial; revegetation; run-on/off controls.	2006	Ca 175,000; Mineral Severance, NPS, DMG safety pro	Reduced surface water leaching of mine wastes.
San Juan RC & D (ARSG)	Red Mtn. Project	Upper Browns trench and mine	mine waste consolidation and burial; revegetation; run-on/off controls.	2006	\$62,000 NPS	. Reduced surface water leaching of mine wastes
Mining Remedial Recovery	Sunbank Group	Placer Gulch	Anoxic drain, settling pond, waste consolidation, bulkhead	1995	NPS 319 Funds: \$58,000 MRRC: 38,500	Raise pH from draining adit, reduce metal loading from adits and mine waste
Salem Minerals	Mammoth Tunnel	North Fork of Cement Creek	Settling ponds for mine drainage	1999	NPS 319 Funds: \$10,050. St. Severance tax: \$6,700	Focused on reductions of iron to Cement Creek

Office of	Galena	Prospect Gulch	Waste consolidation &	1998	Office of	Reduce surface water leaching of
Surface	Queen	-	hydrological controls		Surface Mining:	toxic metals
Mining		•			\$10,000	
San Juan	Galena	Prospect Gulch	Waste Removal, hydrol.	2001	NPS 319	Elimination of surface water
RC&D	Queen and		controls, amendments,		Funds: \$94,800	leaching of toxic metals. Post
(ARSG)	Hercules		revegetation.		Mineral Sev:	remediation monitoring begins in
					\$90,000	2002.
U.S. BLM	Joe & John	Prospect Gulch	Mine drainage collection and	1998-1999	BLM: \$36,000	Collect AMD for later treatment
	Tunnel	,	diversion			project development
U.S. BLM	Lark Mine	Prospect Gulch	AMD collection, hydrological	1999	BLM: \$17,800	Collect AMD for possible treatment,
			controls			remove surface water from site
U.S. BLM	Forest Queen	Animas near	AMD collection and passive	1998-1999	BLM: \$290,000	Reduce metal loading to Animas
	·	Eureka	wetland treatment			River
U.S. BLM	Mayday	Cement Creek	Hydrological controls, cap top	1998-1999	BLM: \$87,000	Reduce surface water leaching of
	Mine		of mine waste pile			toxic metals
U.S. BLM	Lackawanna	Animas near	Removal of tailings from flood	2000	BLM: \$300,000	Reduce metal loading to Animas
	Tailings	Silverton	plain to Mayday dump for			River
			consolidation and capping.			
U.S.BLM	Elk Tunnel	Cement Crk	Passive treatment of mine	2003	BLM: \$110,000	Reduce Fe loading to Cement Crk
			discharge			
U.S.BLM	Henrietta	Cement Crk	Mine waste consolidation,	2004	Duke Energy,	Reduce metals and acidity in
& Duke	Mine 6 & 7		neutralization, clay cap, top		\$500,.000; BLM	Prospect and Cement Creeks
Energy	levels		soil, revegetation		\$unknown	
U.S.BLM	Joe & John	Cement Crk	Consolidation and lined burial	2006-7	BLM:	Reduce Fe, Zn, Cu, Cd, Pb loading
	upper, Lark	<u>'</u>	of mine wastes		>\$600,000	to Cement Crk
U.S. F.S.	Bonner Mine	North Fork of	Waste removal and	2000	F. S.: \$63,384	Reduce metal loading ot N. Fork
		Mineral Creek	consolidation; capture mine		·	Mineral Creek from mine waste and
			drainage and reroute			draining adit
U.S. F.S.	Brooklyn	Browns Gulch –	Mine waste removal and	2004	F. S.: Unknown	Reduce metal and acidity from
	Mine	tributary of	disposal in pit w/impervious			leaching into Mineral Creek.
		Mineral Creek	cap.			

Total For Each Entity (through 2002 only)

PRIMARY SPONSOR	TYPE OF PROJECT	Primary Fund	Match Source and	Total Construction Cost
SIDGED (ADSC)	NIDG 210 Minus	Source/Amt.	Amount	#5.40.202
SJRC&D (ARSG)	NPS 319 – Mine wastes	NPS 319 / \$329,635	SGC, St. Severance Tax/ \$219,757	\$549,392
SJRC&E (ARSG)	NPS 319 – Mine Wastes	NPS 319/ \$362,740	St. Severance Tax;, Silver Wing Co. / \$472,500	\$835,240
Forest Service	AML Mine Wastes &	U. S. Forest Service /	none	\$63,384
	mine drainage control	\$63,384		
BLM	Mine Wastes	BLM / \$440,800	None	\$440,800
BLM	Mine drainage treatment	BLM / \$290,000	None	\$290,000
Office of Surface Mining	Mine Waste treatment	OSM / \$10,000	none	\$10,000
Other Private Companies	Mine drainage treatment	Owners / \$124,301	None	\$124,301
Other Private Companies	Mine Waste treatment	NPS / \$58,000	\$38,500	\$96,500
Other Private Companies	Mine Waste treatment	NPS / \$226,050	\$150,700	\$376,750
TOTAL FROM ALL	Mine waste and drainage	\$1,904,910	\$881,457	\$2,786,367
ENTITIES (except SGC)	treatments combined			
	•			
Sunnyside Gold Corp	Mine Waste Treatments	\$10,219,600	none	\$10,219,000
(SGC)				
TOTAL WITH ALL	Mine waste and drainage	\$12, 124, 510	\$881,457	\$13,005,367
ENTITIES	treatments combined		·	

Blue type = projects to be implemented in 2003.

Table 3.1
Summary of Reclamation Projects (Updated 8/28/07)

(1) Project Sponsor	(2) Project Site Name	(3) <u>Location</u>	(4) Type of Remediation	(5) Project Timeframe	(6) Funding (incl. in-kind match)	(7) <u>Improvements</u> (actual or anticipated)
Sunnyside Gold Corp.	Lead Carbonate Millsite	Gladstone on bank of S. Fork of Cement Creek	Removal of 27,000 yards of tailings from streambank	Completed 1991	SGC: \$163,000	Reduce loading of metals and erosion transport of tailings
Sunnyside Gold Corp.	Mayflower Mill – Tailings Ponds #1, #2 and #3	Mayflower Mill complex near Boulder Creek and Animas River	Re-contour inactive tailings ponds and cap. 625,000 yards of tailings and overburden moved.	Completed 1991-1992	SGC: \$1,755,000	Mined land reclamation –reduce loading of metals and erosion transport of tailings
Sunnyside Gold Corp.	Lake Emma Sunnyside Basin	Sunnyside Basin headwaters of Eureka Creek	Fill mine subsidence, remove 240,000 yards mine waste and re-contour disturbances.	Completed 1991-1993	SGC: \$911,000	Mined land reclamation and reduce loading of metals
Sunnyside Gold Corp.	American Tunnel waste dump	Gladstone on bank of S. Fork of Cement Creek	Remove 90,000 yards of waste dump and underlying historic tailings	Completed 1995	SGC: \$766,500	Mined land reclamation and reduce loading of metals and erosion transport of tailings
Sunnyside Gold Corp.	Eureka Townsite	On banks and In floodplain of Animas River	Remove 112,000 yards of tailings	Completed 1996	SGC: \$843,000	Reduce loading of metals and erosion transport of tailings
Sunnyside Gold Corp.	Gladstone	Cement Creek at Gladstone	Divert and treat Cement Creek to mitigate any short term impacts of reclamation projects	8/96-5/99, 11/99- 12/99	SGC: \$901,000	Reduce loading to Animas River to offset any short term impacts of reclamation of other sites.
Sunnyside Gold Corp.	Boulder Creek Tailings	Flood plain of Boulder Cr. and the Animas River	Remove 5700 yards of tailings	Completed 1997	SGC: \$32,500	Reduce loading of metals and erosion transport of tailings
Sunnyside Gold Corp.	Ransom adit	Eureka townsite above old mill foundation	Bulkhead seal to stop deep mine drainage and reclaim portal	Completed 1997	SGC: \$85,400	Restore hydrologic regime and reduce rate of ore oxidation by placing mine workings under water to reduce metal loading.
Sunnyside Gold Corp.	Gold Prince mine waste and tailings	Headwaters of Placer Gulch	Bulkhead seals to stop deep mine drainage. Consolidate mine waste and tailings (moved 6000 yards) and construct upland diversions	Completed 1996-1997	SGC: \$151,000	Reduce exposure to water to reduce metal loading

Sunnyside Gold Corp.	Longfellow- Koehler	Headwaters of Mineral Creek near top of Red Mountain Pass	Remove Koehler dump (32,100 yards), consolidate Junction Tunnel dump and Longfellow dump and cap. Capture adit drainages. Construct diversions. Feasibility study of wetland treatment of Koehler drainage.	Completed 1996-1997	SGC: \$580,000	Reduce metal loading and erosion transport of mine waste
Sunnyside Gold Corp.	Pride of the West tailings	Howardsville near confluence of Cunningham Creek with Animas River	Remove 84,000 yards of tailings	Completed 1997	SGC: \$490,500 TUSCO: \$14,000	Reduce metal loading and transport of tailings by erosion
Sunnyside Gold Corp.	Sunnyside Mine	Sunnyside Mine Lake Emma Area	Inject 652 tons of hydrated lime into the Sunnyside Mine pool to provide increased alkalinity and improve initial mine pool conditions	Completed 1996-1997	SGC: \$313,000	Improve initial conditions as water table is restored through bulkheading to stop mine drainage
Sunnyside Gold Corp.	Mayflower Upland Hydrological Control	Mayflower Mill and Tailings Pond #1 area near Silverton	Capture and divert three upland drainages that were going sub- surface up-gradient of the mill and TP #1 facilities	Completed 1998-1999	SGC: \$186,000	Minimize potential for contact of runoff with tailings and reduce potential for metal loading
Sunnyside Gold Corp.	TP #4 drainage modification	Drainage ditch between Hwy. 110 and TP #4 near Silverton and Animas R.	Install lined diversion ditch to capture surface runoff and prevent infiltration through tailings material	Completed 1999	SGC: \$72,000	Minimize potential for contact of runoff with tailings and reduce potential for metal loading
Sunnyside Gold Corp.	TP #4 upland groundwater diversion	Up-gradient from Tailings Pond #4 near Silverton	Capture groundwater and divert around tailings impoundment	Completed 1993-1995, 1999	SGC: \$409,000	Minimize potential for contact of groundwater with tailings and reduce potential for metal loading
Sunnyside Gold Corp.	Sunnyside Mine hydraulic seal project	Sunnyside Mine	Bulkhead placement in Sunny- side Mine to restore hydrologic regime to approximate pre- mining and eliminate drainage from adits (6 bulkheads)	Completed 1992-1996	SGC: \$2,346,000	Place mine workings under water to reduce oxidation, restore groundwater movement around mine workings and eliminate need for perpetual water treatment
Sunnyside Gold Corp.	Power Plant Flats	Power Plant Flats, Animas River floodplain	Removal of mill tailings from floodplain	Completed 2003	SGC: \$?	Excavate buried tailings and dispose into Mayflower Tailings Pond #4
Sunnyside Gold Corp.	Mogul Mine Bulkhead	Mogul Mine, Upper Cement Crk.	Stop discharge of AMD from Mogul Mine	Summer, 2003	SGC: \$?	Reduce metal loading to Upper Cement Crk

Sunnyside Gold Corp.	Kohler Mine Bulkhead	Kohler Mine, Headwaters of Mineral Crk	Stop discharge of AMD from Kohler mine	Summer, 2003	SGC: \$?	Reduce metal loading to Mineral Crk. Headwaters
Sunnyside Gold Corp.	Reactive Wall	Animas floodplain below MF. Tailings #4	Treat contaminated groundwater before entering Animas River	Fall, 2003	SGC: \$?	Reduce metal loading to Animas River
Gold King Mines Corp	Gold King Mine	Gladstone, N. Fork of Cement Creek	Hydrologic controls for workings and mine waste	1998	Gold King: \$117,300	Reduce metal loading to North Fork of Cement Creek
Gold King Mines Corp	Gold King Mine discharge	Gold King discharge treatment	Pipe mine discharge to Gladstone to actively treat	2002	Gold King: \$?	Reduce metal loading to Upper Cement Crk.
Silver Wing Mining Co	Silver Wing	Animas river, about 1.5 mile above Eureka	Collect AMD, hydrological controls	1995	Silver Wing \$7,000	Remove AMD from dump, reduce metals loading
Office of Surface Mining	Galena Queen	Prospect Gulch	Waste consolidation & hydrological controls	1998	Office of Surface Mining: \$10,000	Reduce surface water leaching of toxic metals
Silver Wing Mining Co	Silver Wing	Animas River, about 1.5 miles above Eureka	Anoxic Drain, settling pond, bioreactor	1999-2000	NPS 319Funds: \$216,000. St. Severance tax: \$144,000	Reduce metal loading to the Animas River.
San Juan RC & D (ARSG)	Carbon Lakes Mine Dump	Headwaters of Mineral Creek East of Red Mountain Pass	Removal of 1,900 cubic yards of waste rock from stream channel	Phase 1 – completed 1999	NPS 319 Funds: \$72,000 ARSG match: \$62,800	Reduce loading of metals especially Cadmium, Copper, Iron, Lead, Manganese, and Zinc
San Juan RC & D (ARSG)	Carbon Lakes Mine Waste Phase II Part 1	Headwaters of Mineral Creek East of Red Mountain Pass	Complete removal of waste rock from stream channel	2001 season	NPS 319 Funds: \$38,000 ARSG Match: \$51.000	Reduce loading of metals to Animas River, restore stream channel, revegetate
San Juan RC & D (ARSG)	Carbon Lakes Phase II, Part 1	Headwaters of Mineral Creek East of Red Mountain Pass	Removal and disposal of 3000 tons of Congress Mine Dump wastes	2001 season	NPS 319 Funds: \$38,500 ARSG Match: \$42.500	Reduce loading of metals to Animas River by beginning the removal of mine wastes.
San Juan RC & D (ARSG)	Carbon Lakes Phase II, Part 2	SanAntonio &Kohler Tunnel infiltration control	Infiltration Control: Purchased Carbon Lakes Trans-basin diversion rights; abandoned ditch	2001 season	NPS 319 Funds: \$50,000 ARSG Match: \$33.333	Reduce water infiltration to the San Antonio and Koehler Mines; reduce AMD

San Juan	Red Mtn.	Carban Laless	Dital Watland and Charan	2002	SWWCD:	Data Minaral Calabar Janatana ta
an Juan RC & D	Project	Carbon Lakes Ditch Restoration	Ditch, Wetland and Stream Restoration	2003	\$\$ WCD: \$5,000; USFS:	Return Mineral Crk headwaters to natural hydrology; erosion controls;
ARSG)	Fioject	Ditch Restoration	Restoration		\$12,400	restoration of transbasin diversion
ARSO)					\$12,400	ditch; wetland restoration.
San Juan	Red Mtn.	Congress Mine,	Complete removal of Congress	2003	NPS 319:	Reduce metal loading to Animas
RC & D	Project	Mineral Crk.	mine wastes		\$174,000; July,	River by removal of mine wastes and
(ARSG)		headwaters	·		2003; St. Min.	benefaction.
		-			Severance Tax:	
San Juan	Red Mtn.	San Antonio	Hydrological controls, remove	2004	\$? Ca. \$80,000;	Reduce metal loading and acidity to
RC & D	Project	Mine Waste	wastes from stream,	2004	40% match from	Mineral Creek; stabilize site, restore
(ARSG)	Troject	Control project	consolidation, neutralization,		Silver Wing Co.	streambed
(· Project	revegetation		disposal fees.	
San Juan	Handies Peak	Lucky Jack Mine	Hydrological controls, remove	2004	Ca. \$75,000;	Reduce metal loading and acidity to
RC & D	Project	wastes and	wastes from fen, consolidation,		match from Co.	Upper Animas River; uncover fen
(ARSG)		drainage	neutralization, revegetation;		Mineral	and restore
~ -	ļ		adit and shaft closures		Severance	
San Juan	Handies Peak	Upper Lucky	Consolidation, neutralization, &	2005	Ca. \$13,095;	Reduce metal loading and acidity to
RC & D	Project	Jack Mine wastes	revegetation of waste dump;		match from Co.	Upper Animas River from leaching
(ARSG)		and drainage	clean streambed of wastes		Mineral Severance	mine wastes partially residing in stream
San Juan	Infiltration	Pride of the West	Combined safety and	2005	Ca 500,000;	Reduced surface water infiltration
RC & D	Control	Mine Open	infiltration closure of 2 large		Mineral	into mine to reduce metal loading at
(ARSG)	Project	Stopes	open stopes & 1 raise.		Severance, NPS,	mine discharge.
` ,					DMG safety pro	
San Juan	Priority	Kansas City #1,	Safety closure, mine waste	2006	Ca 175,000;	Reduced surface water leaching of
RC & D	Waste Site	2, and 3 mines	consolidation and burial;		Mineral	mine wastes.
(ARSG)			revegetation; run-on/off		Severance, NPS,	
O T	D. 1 M.	11	controls.	2006	DMG safety pro	D-11
San Juan RC & D	Red Mtn. Project	Upper Browns trench and mine	mine waste consolidation and burial; revegetation; run-on/off	2006	\$62,000 NPS	. Reduced surface water leaching of mine wastes
(ARSG)	Froject	denon and mine	controls.			inne wastes
Mining	Sunbank	Placer Gulch	Anoxic drain, settling pond,	1995	NPS 319 Funds:	Raise pH from draining adit, reduce
Remedial	Group		waste consolidation, bulkhead		\$58,000	metal loading from adits and mine
Recovery				L'	MRRC: 38,500	waste
Salem	Mammoth	North Fork of	Settling ponds for mine	1999	NPS 319 Funds:	Focused on reductions of iron to
Minerals	Tunnel	Cement Creek	drainage		\$10,050. St.	Cement Creek
					Severance tax:	
	1				\$6,700	

Office of	Galena	Prospect Gulch	Waste consolidation &	1998	Office of	Reduce surface water leaching of
Surface Mining	Queen		hydrological controls		Surface Mining: \$10,000	toxic metals
San Juan RC&D (ARSG)	Galena Queen and Hercules	Prospect Gulch	Waste Removal, hydrol. controls, amendments, revegetation.	2001	NPS 319 Funds: \$94,800 Mineral Sev: \$90,000	Elimination of surface water leaching of toxic metals. Post remediation monitoring begins in 2002.
U.S. BLM	Joe & John Tunnel	Prospect Gulch	Mine drainage collection and diversion	1998-1999	BLM: \$36,000	Collect AMD for later treatment project development
U.S. BLM	Lark Mine	Prospect Gulch	AMD collection, hydrological controls	1999	BLM: \$17,800	Collect AMD for possible treatment, remove surface water from site
U.S. BLM	Forest Queen	Animas near Eureka	AMD collection and passive wetland treatment	1998-1999	BLM: \$290,000	Reduce metal loading to Animas River
U.S. BLM	Mayday Mine	Cement Creek	Hydrological controls, cap top of mine waste pile	1998-1999	BLM: \$87,000	Reduce surface water leaching of toxic metals
U.S. BLM	Lackawanna Tailings	Animas near Silverton	Removal of tailings from flood plain to Mayday dump for consolidation and capping.	2000	BLM: \$300,000	Reduce metal loading to Animas River
U.S.BLM	Elk Tunnel	Cement Crk	Passive treatment of mine discharge	2003	BLM: \$110,000	Reduce Fe loading to Cement Crk
U.S.BLM & Duke Energy	Henrietta Mine 6 & 7 levels	Cement Crk	Mine waste consolidation, neutralization, clay cap, top soil, revegetation	2004	Duke Energy, \$500,.000; BLM \$unknown	Reduce metals and acidity in Prospect and Cement Creeks
U.S.BLM	Joe & John upper, Lark	Cement Crk	Consolidation and lined burial of mine wastes	2006-7	BLM: >\$600,000	Reduce Fe, Zn, Cu, Cd, Pb loading to Cement Crk
U.S. F.S.	Bonner Mine	North Fork of Mineral Creek	Waste removal and consolidation; capture mine drainage and reroute	2000	F. S.: \$63,384	Reduce metal loading ot N. Fork Mineral Creek from mine waste and draining adit
U.S. F.S.	Brooklyn Mine	Browns Gulch – tributary of Mineral Creek	Mine waste removal and disposal in pit w/impervious cap.	2004	F. S.: Unknown	Reduce metal and acidity from leaching into Mineral Creek.
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Total For Each Entity (through 2002 only)

PRIMARY SPONSOR	TYPE OF PROJECT	Primary Fund Source/Amt.	Match Source and Amount	Total Construction Cost
SJRC&D (ARSG)	NPS 319 – Mine wastes	NPS 319 / \$329,635	SGC, St. Severance Tax/ \$219,757	\$549,392
SJRC&E (ARSG)	NPS 319 – Mine Wastes	NPS 319/ \$362,740	St. Severance Tax;, Silver Wing Co. / \$472,500	\$835,240
Forest Service	AML Mine Wastes & mine drainage control	U. S. Forest Service / \$63,384	none	\$63,384
BLM	Mine Wastes	BLM / \$440,800	None	\$440,800
BLM	Mine drainage treatment	BLM / \$290,000	None	\$290,000
Office of Surface Mining	Mine Waste treatment	OSM / \$10,000	none	\$10,000
Other Private Companies	Mine drainage treatment	Owners / \$124,301	None	\$124,301
Other Private Companies	Mine Waste treatment	NPS / \$58,000	\$38,500	\$96,500
Other Private Companies	Mine Waste treatment	NPS / \$226,050	\$150,700	\$376,750
TOTAL FROM ALL ENTITIES (except SGC)	Mine waste and drainage treatments combined	\$1,904,910	\$881,457	\$2,786,367
Sunnyside Gold Corp (SGC)	Mine Waste Treatments	\$10,219,600	none	\$10,219,000
TOTAL WITH <u>ALL</u> ENTITIES	Mine waste and drainage treatments combined	\$12, 124, 510	\$881,457	\$13,005,367

Blue type = projects to be implemented in 2003.